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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,019	08/20/2003	David P. Wieczorek	51252-5029-01	5187
7590 01/12/2007 Siemens Corporation Intellectual Property Department			· EXAMINER	
			· KIM, CHRISTOPHER S	
170 Wood Avenue South Iselin, NJ 08830		•	ART UNIT	PAPER NUMBER
,			3752	
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTI	uis .	01/12/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/644,019	WIECZOREK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Christopher S. Kim	3752	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT (36(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS (6) cause the application to become ABAND	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 09 J	<u>une 2005</u> .		
	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters,	prosecution as to the merits is	
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>6-9 and 20-29</u> is/are pending in the a	pplication.		
4a) Of the above claim(s) <u>6-9,28 and 29</u> is/are		•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>20-27</u> is/are rejected.		:	
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	cepted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correc	•	•	
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Of	fice Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in Appli	cation No	
Copies of the certified copies of the prior	rity documents have been rec	eived in this National Stage	
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action for a list	of the certified copies not rec	eived.	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sumn	nary (PTO-413)	
1) E A HOUSE OF IVEREFERIORS OFFICE (L. 10-035)	T) III IIILEI VIEW GUINII	1141) (1 10-710)	

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _____.

Paper No(s)/Mail Date. __

6) Other: _____.

5) Notice of Informal Patent Application

Application/Control Number: 10/644,019

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DETAILED ACTION

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Election/Restrictions

- 1. Applicant's election of Invention II, Species A in the reply filed on June 9, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 6-9, 28 and 29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention and/or Species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on June 9, 2005.

Claim Objections

3. Claim 23 is objected to because of the following informalities: in line 5, --the--should be inserted before "seat". Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 20-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "minimum" in claim 20 is a relative term which renders the claim indefinite. The term "minimum" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is uncertain what range of temperature gradient is being defined by the claim.

Claim 23 recites the limitation 'fuel passageway" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by Tanasawa et al. (4,365,746).

Tanasawa discloses a method comprising:

providing a needle 6;

selecting a body 1 to surround the needle 6 and form a body passage 7.

8.

8. Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by Horsting (5,207,384).

Horsting discloses a method comprising:

providing a needle 18;

selecting a body to surround the needle 18 and form a body passage (see figure 1).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanasawa et al. (4,365,746).

Tanasawa discloses the limitations of the claimed invention with the exception of the average cross sectional area of the body passage and the cross sectional area of the needle. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have provided an annulus outer diameter that is no less than 100% greater than the inner diameter and a body passage area less than 2.25 time the area of the needle in the device of Tanasawa to control fuel flow volume.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571)

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272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Christópher S. Kim **Primary Examiner** Art Unit 3752